



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,028	08/10/2005	Georges Zagdoun	264641US6PCT	8400
22850	7590	09/17/2007	EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			NGO, HUNG V	
			ART UNIT	PAPER NUMBER
			2831	
			NOTIFICATION DATE	DELIVERY MODE
			09/17/2007	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
oblonpat@oblon.com  
jgardner@oblon.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/523,028	<b>Applicant(s)</b> ZAGDOUN, GEORGES	
	<b>Examiner</b> Hung V. Ngo	<b>Art Unit</b> 2831	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 29 June 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 22,23 and 26-42 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 22, 23, 26-42 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Claim Objections***

Claims 23-37, 39-42 are objected to because of the following informalities:

Claims 23-37, line 1, "A structure" should be --The structure--.

Claims 39-42, line 1, "A screen" should be --The screen--.

Claim 28, line 2, "the conducting element constitutes the covering sheet" is unclear. As discussed in claim 22, line 8, the other of the first and second sheets constitutes a covering sheet. Is the cover sheet functioned as a support sheet ?

Claims 28, 35, line 3; claim 30, line 4; claims 32, 33, 34, line 2, "the thermoplastic first sheet" lacks antecedent basis.

Claims 32, lines 2, 3 "when the covering sheet does not constitute a support sheet for the conducting element" is unclear.

Claim 34, lines 1, 2 "the structure" is unclear. Is it the first and second plastic sheets ?

Claim 35, line 2, 3, "on its face that faces the thermoplastic sheet" is unclear.

Claim 35, lines 3, 4, "when the conducting element is jointed to the structure" is unclear which structure?

Claim 36, line 4, "the structure" is unclear which structure ?

Claim 37, lines 2, 3, "at most" is unclear.

Claim 38 is unclear.

Claim 40, 42, lines 2, 3, "the structure" is unclear which structure ?

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 22, 23, 26-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Koike et al (US 6,965,191).

Re claim 22, Koike et al disclose an optical filtering/electromagnetic screening structure to be joined to at least one transparent substrate, the structure comprising: at least first and second plastic sheets (20, 63), a conducting electromagnetic screening element (10), wherein at least one of the first and second sheets is made of a thermoplastic (polyurethane)(col. 9, line 56), the other of the first and second sheets constitutes a covering sheet for covering the conducting element or the thermoplastic sheet (Fig 3), wherein one of the first and second sheets is neutral to light while the other of the first and second sheets includes at least two pigments or dyes that provide

an orange filter (col. 20, lines 25-50) and an infrared filter (col. 21, line 20-23)(col. 57, line 65 to col. 58, line 3), respectively, the orange filter filtering out light having a wavelength centered on 590 nm (col. 5, line 44).

Claim 23, wherein the at least two mineral pigments or dyes form the infrared filter in the 800 to 1250 nm wavelength range (col. 57, line 65).

re claim 26, wherein the conducting element (12) is formed from a metal wire gauze (col. 72, lines 26-28) joined between the first and second sheets (Fig 3).

re Claim 27, wherein the conducting element is formed from a metal wire mesh (12) deposited on a support sheet (11) whose composition is based on one of following materials: polycarbonate, polymethyl (meth)acrylate, polyethylene terephthalate, polyethersulphone, polyetherketone, and acrylonitrile-styrene copolymer (col. 58, lines 25-30).

re claim 28, wherein the support sheet for the conducting element constitutes the covering sheet, the conducting element being placed between the thermoplastic first sheet and the covering sheet (Fig 3).

re claim 29, wherein the covering sheet bearing the conducting element is coated on an opposite side from the conducting element (Fig 3) with a protective film made of polyethylene terephthalate (PET), or of polyvinyl chloride (PVC), or of polypropylene, or of high-density polyethylene, with a thickness of less than or equal to 60 microns (col. 58, lines 25-30)

Re claim 30, wherein the conducting element is formed from a metal layer, deposited on a support sheet that is formed by the covering sheet, the element being

placed between the covering sheet and the thermoplastic first sheet. (Fig 3)

re claim 31, wherein the support sheet (11) for the conducting element is formed from a complementary plastic sheet that is laminated between the thermoplastic first sheet and the covering sheet (Fig 3).

re claim 32, wherein the thermoplastic first sheet and the covering sheet when it does not constitute a support sheet for the conducting element are made of polyvinyl butyral, or of polyurethane, or of ethylene-vinyl acetate (col. 9, line 56).

re Claim 33, joined to a single transparent substrate, the thermoplastic first sheet being joined to the substrate (Fig 3).

re Claim 34, laminated between two transparent substrates, the thermoplastic sheet and the covering sheet being joined to each of the substrates, respectively (Fig 3).

Claim 35, wherein the transparent substrate has, on its face that faces the thermoplastic sheet, a metal layer to form the conducting element when the conducting element is joined to the structure (Fig 3).

Re Claim 36, providing, in respect of a structure/substrate assembly, an infrared filter with a corresponding light transmission not exceeding 22%, and an orange filter with a corresponding light transmission of between 20% and 40%, the structure/substrate assembly having a light transmission coefficient in the visible of between 40% and 60%, with a less than 3% purity (col. 56, lines 35-45).

Art Unit: 2831

re Claim 37, wherein the infrared filter ensures transmission at 815 nm of at most 22%, transmission at 870 nm of at most 18%, and transmission between 900 and 1250 nm of at most 12% (col. 56, lines 35-45).

re Claim 38, A display screen (00), having on a front face a structure (Fig 3)  
re Claim 39, wherein at least one of the glass substrates is made of toughened glass (col. 58, line 52).

Claim 40, wherein at least one of the glass substrates has an antireflection coating on an opposite face from the structure (abstract).

Claim 41, wherein the covering sheet has an antireflection coating on an opposite face from the thermoplastic first sheet (abstract).

Re claim 42, wherein the structure is adhesively bonded directly to the front face of the screen (Fig 3).

### ***Response to Arguments***

Applicant's arguments filed 06-29-07 have been fully considered but they are not persuasive.

Applicant argues (1) that Koike does not teach or suggest the orange filter and the infrared filter are formed in a single plastic sheet.

With respect to (1) Koike discloses an orange filter used in a polymer film (col. 20, lines 25-50) and Koike suggests that the orange filter dyes can be used together with the infrared absorbing dyes (col. 21, lines 20-23). Also, Koike suggests that the infrared absorbing dyes are used in a polymer shielding film (B) (col. 57, line 65 to col. 58, line 3).

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung V. Ngo whose telephone number is (571) 272-1979. The examiner can normally be reached on Monday to Thursday 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean A. Reichard can be reached on (571) 272-2800 EXT 31. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Art Unit: 2831

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HVN  
09-09-07

Hung V. Ngo

**HUNG V. NGO  
PRIMARY EXAMINER**